

MS-08

Management Programme

**ASSIGNMENT
SECOND SEMESTER
2017**

MS - 08: Quantitative Analysis for Managerial Applications



**School of Management Studies
INDIRA GANDHI NATIONAL OPEN UNIVERSITY
MAIDAN GARHI, NEW DELHI – 110 068**

ASSIGNMENT

Course Code	:	MS-08
Course Title	:	Quantitative Analysis for Managerial Applications
Assignment Code	:	MS-08/TMA/SEM-II/2017
Coverage	:	All Blocks

Note : Attempt all the questions and submit this assignment on or before 31st October, 2017 to the coordinator of your study center.

1. What factors in modern society contribute to the increasing importance of quantitative approach to management? List one application of quantitative techniques in each functional area of management.
2. From the frequency distribution, find the standard deviation using the formula for the grouped data:

Class Interval	Frequency
10-20	9
20-30	18
30-40	31
40-50	17
50-60	16
60-70	9
Total	100

3. In a study to test whether there is a difference between the average height of adult females born in two different countries, random samples yielded the following results:
 $n_1 = 120, \bar{x}_1 = 62.7, s_1 = 2.50$
 $n_2 = 150, \bar{x}_2 = 61.8, s_2 = 2.62$
where the measurements are in inches. Use 0.05 level of significance to test the difference between the average heights.
4. Write short notes on:
 - (a) The F- distribution
 - (b) Auto-Regressive (AR) models.
5. Find the area under the standard normal curve, which lies
 - (a) to the left of $z = 0.94$
 - (b) to the right of $z = -0.65$
 - (c) to the right of $z = 1.76$
 - (d) between $z = -0.34$ and $z = 0.62$